



1430 Broadway
10th Floor
New York, NY 10018

212.221.7822 PHONE
212.221.7840 FAX

www.TRCSolutions.com

November 18, 2015

Mr. Alexander Lempert
Director, IEH Division
New York City School Construction Authority
30-30 Thomson Avenue
Long Island City, NY 11101

**Re: P.S. 183Q PCB Air Sampling Results
Summary Report
LLW# 063090; IEH Job# 43897**

Dear Mr. Lempert,

At the request of the New York City School Construction Authority (NYCSCA), TRC Engineers, Inc. (TRC) has prepared this Summary Report for the PCB air sampling event that was conducted at P.S. 183Q on September 25, 2015. Sampling was performed to confirm that conditions were consistent with those found in the previous round of sampling, which was done on June 3, 2015, and that airborne PCB concentrations in the 3rd floor south corridor, 3rd floor northeast staircase (Stairwell B) and 2nd floor southwest staircase (Stairwell D) remained below applicable EPA guidance values.

Air Sampling Procedures

Indoor samples were collected in the locations described above. The following samples were also collected for comparison and quality control purposes: one duplicate sample, one front/back sample to evaluate apparent collection efficiency (ACE), one outdoor air (ambient) sample, one field spike, and one field blank.

Air samples were collected in accordance with USEPA Method TO-10A (*Determination of Pesticides and Polychlorinated Biphenyls in Ambient Air Using Low Volume Polyurethane Foam (PUF) Sampling Followed by Gas Chromatographic/Multi-Detector Detection (GC/MD)*) as per Appendix E of the RI Plan, and analyzed via USEPA Method 8082 with five peak match, to achieve a 50 nanograms per cubic meter (ng/m³) detection limit. The air samples were collected at a flow rate of approximately five liters per minute for approximately 400 minutes for a total volume of around 2,000 liters for each sample.

Temperature readings were also collected and data logged in each of the sample locations.

September 25, 2015 Sampling Event

Sampling was performed with four (4) windows in each classroom partially opened (approximately six inches), doors closed as per school policy, and the supply and exhaust ventilation operating normally. These sampling conditions were representative of school occupancy criteria based on the ambient temperatures observed. The 2nd and 3rd floor exit doors at each of the stairwells were opened for 5 to 10

minutes every hour during the sampling period to be representative of normal air flow that occurs between the corridors and the stairwells during a typical school day. All samples were collected and containerized in accordance with USEPA protocols and sampling methodology. Each container was properly labeled, preserved, and placed in a cooler for over-night transport to Pace Analytical, Inc. (Pace). Pace is a NYSDOH ELAP-certified analytical laboratory for USEPA Method TO-10A analysis. Standard chain-of-custody and sample storage and shipping procedures were followed.

PCB Sample Results

TRC collected a total of four (4) air samples, including a duplicate sample, from the 3rd floor south corridor, 3rd floor northeast staircase (Stairwell B) and 2nd floor southwest staircase (Stairwell D). The final validated laboratory results for the indoor air samples ranged from 194.9 to 282 ng/m³. All of the sample results were below the applicable EPA guideline values for elementary schools. Based on the results from two (2) consecutive rounds of air sampling, conducted on June 3 and September 25, 2015, in which results from both rounds were below the applicable EPA guidance values, no further air sampling is recommended. Please refer to Appendix 1 for a summary of the PCB air sampling results.

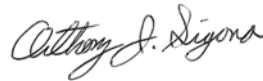
If you have any questions, please do not hesitate to contact us at (212) 221-7822.

Sincerely,

TRC Engineers, Inc.



John P. Springston, CIH, CSP, FAIHA
Industrial Hygiene Program Manager Senior



Anthony J. Sigona, P.E., CSP
Project Manager

Attachments:

Appendix 1 - PCB Air Sample Results
Appendix 2 - PCB Air Sampling Locations

APPENDIX 1
PCB AIR SAMPLE RESULTS

Summary of Analytical Results for Air Samples -- September 2015
School P.S. 183Q
Far Rockaway, New York

Analysis	Analyte	Sample Location:	Stairwell Floor 2			Stairwell Floor 3	Corridor Floor 3		Ambient Exterior
			Sample ID:	183-2ND-SWST-AR-POST-1	183-2ND-SWST-AR-POST-1B	Total	183-3RD-NEST-AR-POST-2	183-3RD-SCORR-AR-POST-3	183-3RD-SCORR-AR-POST-4
		Sample Date:	Front Half	Back Half					
		Actual volume (L):	9/25/2015	9/25/2015	9/25/2015	9/25/2015	9/25/2015	9/25/2015	9/25/2015
		Standard volume (L):	2001	2001		2050	2062	2084	2037
		2027	2027		2088	2081	2103	2088	
								Field Dup	
PCBs (ng/m3)	Aroclor 1016		49.3 U	49.3 U	49.3 U	47.9 U	48.1 U	47.6 U	47.9 U
	Aroclor 1221		49.3 U	49.3 U	49.3 U	47.9 U	48.1 U	47.6 U	47.9 U
	Aroclor 1232		49.3 U	49.3 U	49.3 U	47.9 U	48.1 U	47.6 U	47.9 U
	Aroclor 1242		49.3 U	49.3 U	49.3 U	47.9 U	48.1 U	47.6 U	47.9 U
	Aroclor 1248		59.5 J+	49.3 U	59.5 J+	65.9 J+	105 J+	111 J+	47.9 U
	Aroclor 1254		141 J+	49.3 U	141 J+	129 J+	164 J+	171 J+	47.9 U
	Aroclor 1260		49.3 U	49.3 U	49.3 U	47.9 U	48.1 U	47.6 U	47.9 U
	Total PCBs		200.5 J+	49.3 U	200.5 J+	194.9 J+	269 J+	282 J+	47.9 U
Guidance Value*:			300	300	300	300	300	300	300

Notes:

ng/m3 - nanograms per cubic meter.

J + - Estimated value; biased high.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

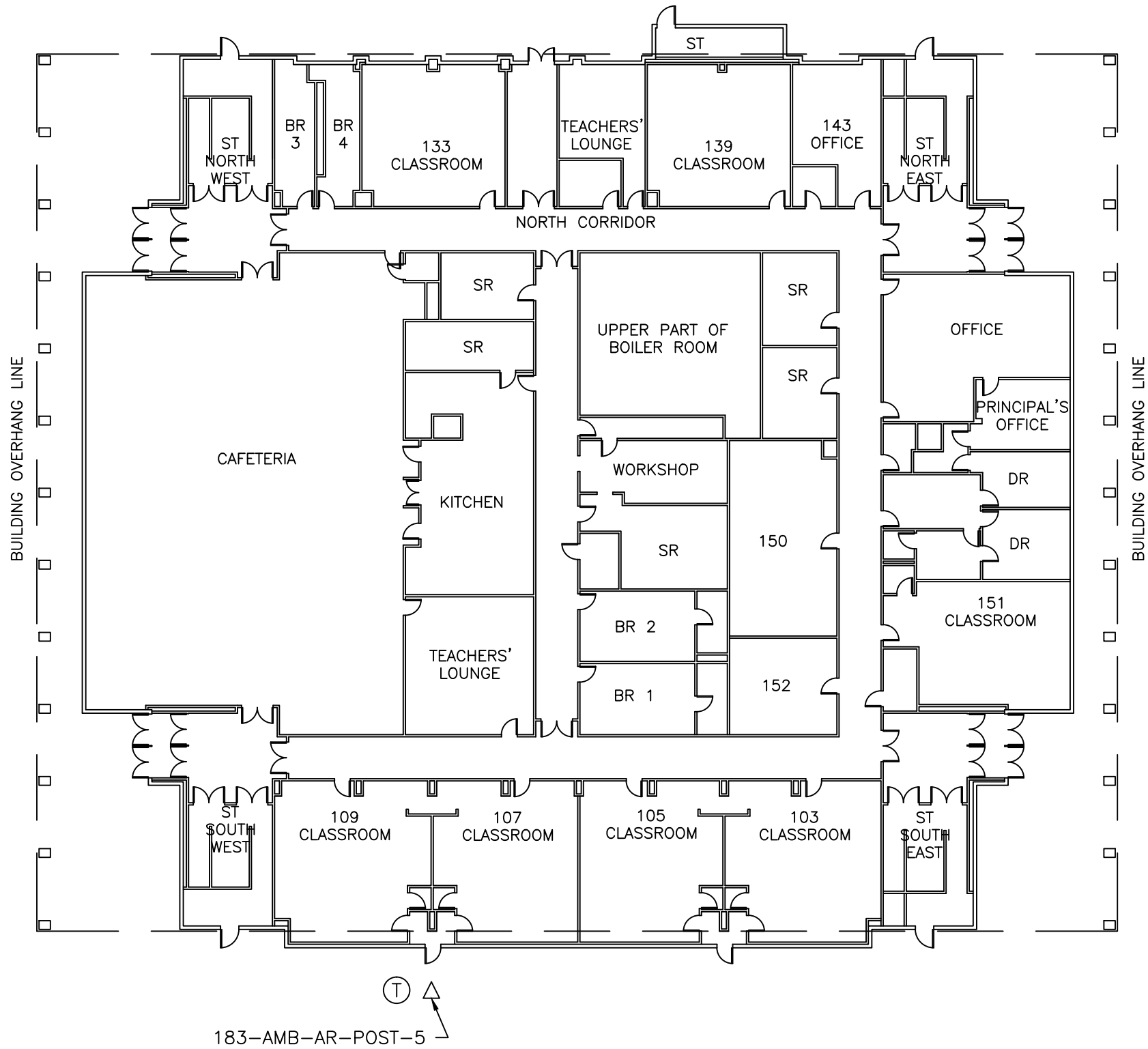
PCBs - Polychlorinated Biphenyls.

*- EPA Guidance values for schools are 300 ng/m3,

with targets of 100 ng/m3 in kindergarten and pre-kindergarten classrooms and 450 ng/m3 for faculty/staff areas.

APPENDIX 2
PCB AIR SAMPLING LOCATIONS

Path\\Name: \\NTAP-NYC\\Environmental\\Shared\\Projects\\NYCSCA Contract 000013444\\229037 - 183Q PCB Caulk Pilot Work\\Sampling Events\\2015\\Sept\\Figure 1-3 - School 183Q September 2015 Air Sampling Location Plan.dwg - Date\\Time: Mon, 16 Nov 2015 - 2:49pm - User Name: catout - L



LEGEND:

- XXX ROOM NUMBER
- ST STAIRS
- SR STORAGE ROOM
- BR BATHROOM
- DR DOCTOR/DENTIST OFFICE ROOM
- ===== BUILDING FOOTPRINT
- △ AMBIENT AIR SAMPLE LOCATION
- ✕ AIR SAMPLE LOCATION
- 183-XXX-AR-POST-XX SAMPLE IDENTIFICATION
- Ⓣ TEMPERATURE MONITOR

NOTES:

1. FIGURE BASED ON TRC FIELD OBSERVATIONS.

NO.	DESCRIPTION	BY	DATE

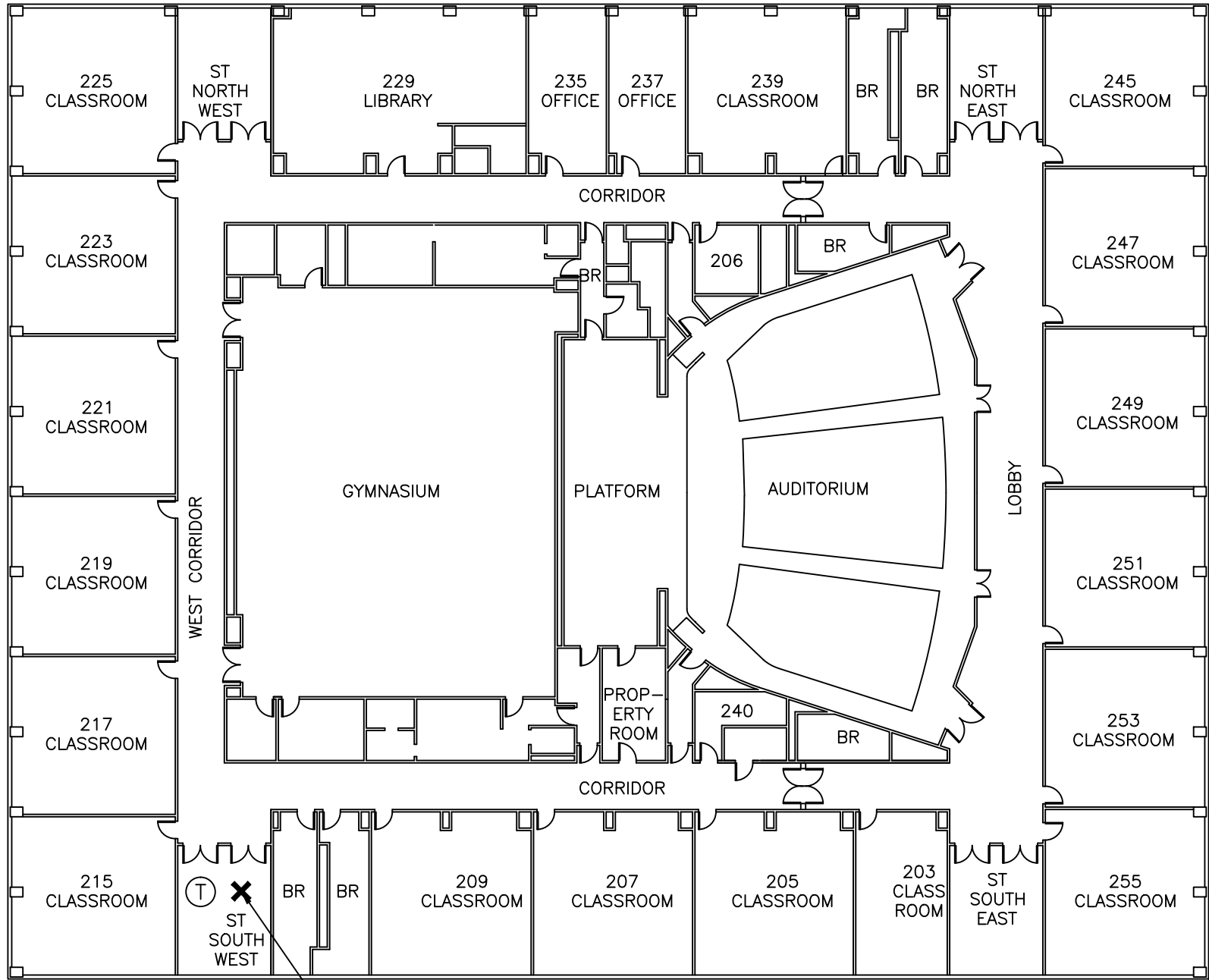


DESIGNED BY: AS
DRAWN BY: HD/CS
CHECKED BY: AS
DATE: SEPTEMBER 2015
SCALE: AS SHOWN
PROJECT NUMBER: 229037.0000.0000

PROJECT NAME: NEW YORK CITY SCHOOL CONSTRUCTION AUTHORITY P.S. 183Q - DR. RICHARD R. GREEN - 245 BEACH 79 STREET QUEENS, NEW YORK 11693
DRAWING TITLE: SCHOOL 183Q FIRST FLOOR SEPTEMBER 2015 AIR SAMPLE LOCATIONS

FIGURE
1

Path Name: \\NTAPA-NYC\Environmental\Shared\Projects\NYCSCA Contract C000013444\229037 - 183Q PCB Caulk Pilot Work\Sampling Events\2015\Sept\Figure 1-3 - School 183Q September 2015 Air Sampling Location Plan.dwg - Date\Time: Mon, 16 Nov 2015 - 2:47pm - User Name: cstout - L



LEGEND:

- XXX ROOM NUMBER
- ST STAIRS
- BR BATHROOM
- ===== BUILDING FOOTPRINT
- X AIR SAMPLE LOCATION
- 183-XXX-AR-POST-XX SAMPLE IDENTIFICATION
- T TEMPERATURE MONITOR

NOTES:

1. FIGURE BASED ON TRC FIELD OBSERVATIONS.

REVISIONS				
	NO.	DESCRIPTION	BY	DATE

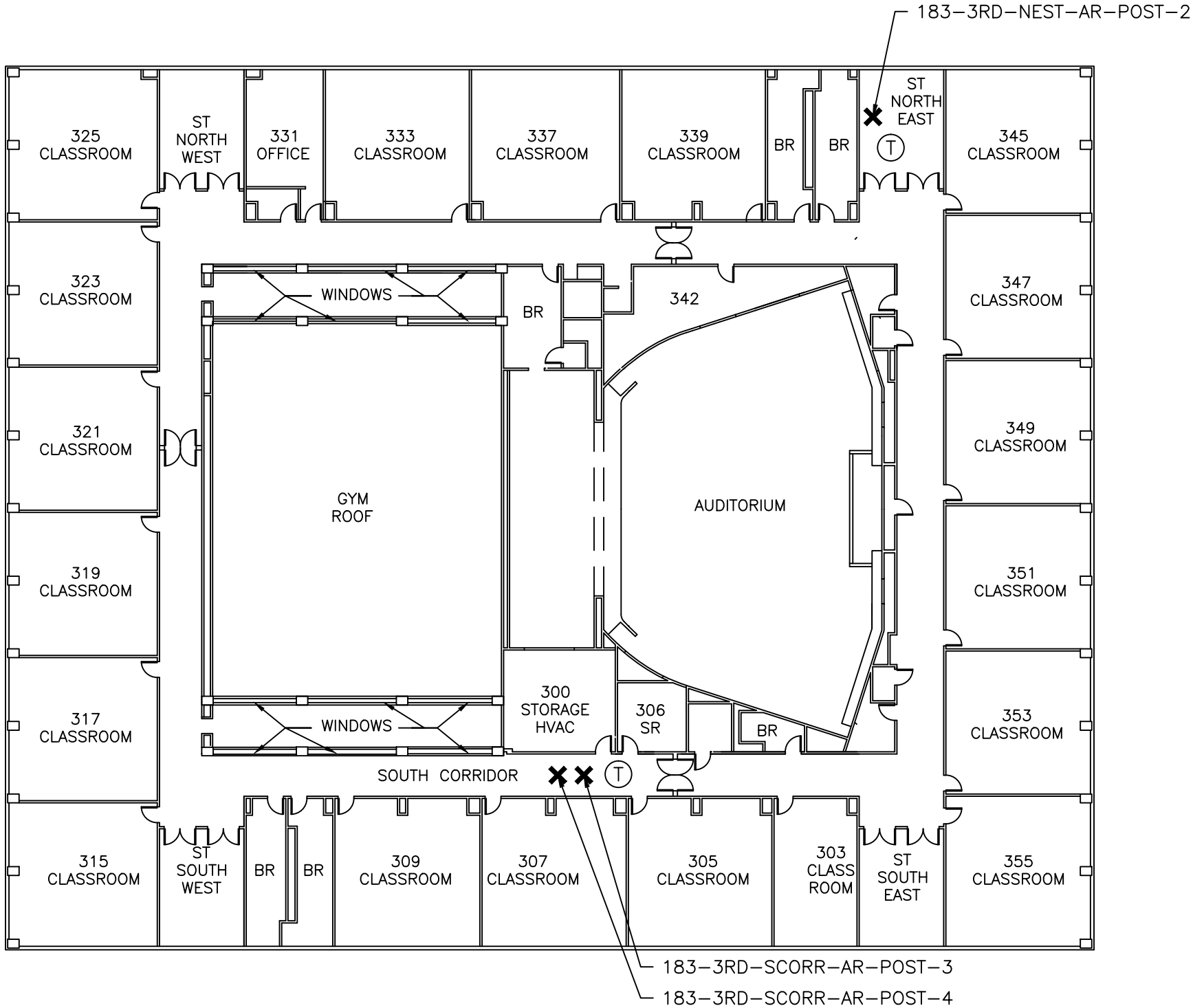


DESIGNED BY: AS
DRAWN BY: HD/CS
CHECKED BY: AS
DATE: SEPTEMBER 2015
SCALE: AS SHOWN
PROJECT NUMBER: 229037.0000.0000

PROJECT NAME: NEW YORK CITY SCHOOL CONSTRUCTION AUTHORITY P.S. 183Q - DR. RICHARD R. GREEN - 2-45 BEACH 79 STREET QUEENS, NEW YORK 11693
DRAWING TITLE: SCHOOL 183Q SECOND FLOOR SEPTEMBER 2015 AIR SAMPLE LOCATIONS

FIGURE
2

Path Name: \\NTAP-NYC\Environmental\Shared\Projects\NYCSCA Contract C000013444\229037 - 183Q PCB Caulk Pilot Work\Sampling Events\2015\Sept\Figure 1-3 - School 183Q September 2015 Air Sampling Location Plan.dwg - Date\Time: Mon, 16 Nov 2015 - 2:50pm - User Name: catout - L



LEGEND:

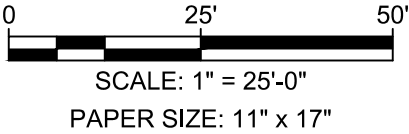
- XXX ROOM NUMBER
- ST STAIRS
- SR STORAGE ROOM
- BR BATHROOM
- ===== BUILDING FOOTPRINT
- X AIR SAMPLE LOCATION
- 183-XXX-AR-POST-XX SAMPLE IDENTIFICATION
- T TEMPERATURE MONITOR

NOTES:

1. FIGURE BASED ON TRC FIELD OBSERVATIONS.



REVISIONS				
	NO.	DESCRIPTION	BY	DATE



DESIGNED BY: AS
DRAWN BY: HD/CS
CHECKED BY: AS
DATE: SEPTEMBER 2015
SCALE: AS SHOWN
PROJECT NUMBER: 229037.0000.0000

PROJECT NAME: NEW YORK CITY SCHOOL CONSTRUCTION AUTHORITY P.S. 183Q - DR. RICHARD R. GREEN - 2-45 BEACH 79 STREET QUEENS, NEW YORK 11693
DRAWING TITLE: SCHOOL 183Q THIRD FLOOR SEPTEMBER 2015 AIR SAMPLE LOCATIONS

FIGURE
3